

# ENGINEERING CONSULTING SERVICES, LTD.

Geotechnical • Construction Materials • Environmental

January 9, 1998

Mr. John Nantz
Guilford County Division of Environmental Health
1100 East Wendover Avenue
Greensboro, NC 27405

Subject:

**Underground Storage Tank Closure Report** 

Piedmont Triad Airport Authority/Cargo Building #1

Greensboro, North Carolina

ECS Project G-1860

Dear Mr. Nantz:

On behalf of the Piedmont Triad Airport Authority, Engineering Consulting Services, Ltd. (ECS) is submitting this Underground Storage Tank Closure Report for the subject site. Included in this report is a description of the field activities, the results obtained, and our conclusions and recommendations.

This closure report has been prepared in general accordance with the Underground Storage Tank Closure Report guidelines presented in the GW/UST-12 form dated October 1994. We appreciate your consideration and cooperation in the submission of this report.

Sincerely,

ENGINEERING CONSULTING SERVICES, LTD.

Sania V. Werner Project Geologist

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Stephen J. Gosselin, L.G. Principal Geologist

Licensed, NC#1445

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Attachments



### ENGINEERING CONSULTING SERVICES, LTD.

## Geotechnical • Construction Materials • Environmental

January 9, 1998

Mr. Bill Shaw Piedmont Triad Airport Authority P.O. Box 35445 Greensboro, North Carolina 27425

Subject:

**Underground Storage Tank Closure Report** 

Piedmont Triad Airport Authority/Cargo Building #1

Greensboro, North Carolina

**ECS Project G-1860** 

Dear Mr. Shaw:

As authorized by your acceptance of our Proposal 0862-P dated October 7, 1997, Engineering Consulting Services, Ltd. (ECS) has completed the underground storage tank (UST) closure report for one 5,000 gallon gasoline UST at the subject site. Included in this report is a description of the field activities, the results obtained, and our conclusions and recommendations.

ECS appreciates the opportunity to provide our environmental consulting services to you on this project. If you have any questions concerning this report or this project, please contact us at 910-856-7150.

Sincerely,

ENGINEERING CONSULTING SERVICES, LTD.

Sania V. Werner

Project Geologist

Stephen J. Gosselin, L.C Principal Geologist Licensed, NC#1445

Attachments

5-C Dundas Circle, Greensboro, NC 27407 • (910) 856-7150 • Fax (910) 856-7160

# TABLE OF CONTENTS

		Pa	ge
I.	GENERAL INFORMATION	<b>7</b>	. 1
п.	CLOSURE PROCEDURES		. 3
ш.	SITE INVESTIGATION		. 4
IV.	CONCLUSIONS AND REC	OMMENDATIONS	. 5
FIGU	RES		
	Figure 1 - Site Location Map Figure 2 - Site Plan		

# APPENDIX

Form GW/UST-3 Form GW/UST-2 Tank Disposal Manifest Non-Hazardous Waste Manifest Laboratory Data and Chain of Custody Records

## I. GENERAL INFORMATION

The subject site is the Piedmont Triad International Airport property located on Highway 421 near the intersection of Airline Road in Greensboro, Guilford County, North Carolina (Figure 1). Information regarding site ownership, facility information, project contacts, underground storage tank (UST) information, and characteristics of the site is presented below:

#### A. Ownership of USTs

Piedmont Triad Airport Authority 6415 Airport Parkway, Suite 1 Greensboro, North Carolina 27409 (336) 665-5600

#### B. Facility Information

Piedmont Triad International Airport Highway 421 near intersection of Airline Road Greensboro, Guilford County, North Carolina 27409

#### C. Contacts

Primary Contact: Mr. Bill Shaw

Piedmont Triad Airport Authority 6415 Airport Parkway, Suite 1 Greensboro, North Carolina 27409

(336) 665-5600

Closure Contractor: Environmental Management Solutions, Inc.

302-A Pomona Drive

Greensboro, North Carolina 27407

(336) 632-8800

Primary Consultant: Engineering Consulting Services, Ltd.

5-C Dundas Circle

Greensboro, North Carolina 27407

(336) 856-7150

Laboratory:

Paradigm Analytical Laboratories, Inc.

2627 Northchase Parkway SE

Wilmington, North Carolina 28405

North Carolina Certification Number 481

#### D. UST Information

Tank Number	Installation Date	Size	Tank Dimensions	Last Contents	Previous Contents
1	unknown	5,000 gallons	5 feet x 30 feet	Gasoline or Diesel	None

#### E. Site Characteristics

The subject site is located on Highway 421 near the intersection of Airline Road in Greensboro, North Carolina (Figure 1). One 5,000 gallon UST was previously used to store either gasoline or diesel for use on site. The areas surrounding the site contain the Piedmont Triad International Airport, commercial property, and undeveloped partially wooded areas. No water supply wells were observed on site and the area is served by the municipal water supply. The nearest surface water feature is an unnamed tributary of the East Fork Deep River located approximately 1,500 feet south of the site (Figure 1).

The site is located in the Piedmont Physiographic Province. The rock which underlies the site includes granitic rock of the Carolina Slate Belt unit. The virgin soils encountered in this area are the residual product of in-place chemical weathering of rock which was similar to the rock presently underlying the site. The soil weathering is more advanced near the surface, grading with depth to less weathered rock and finally bedrock. In this geologic setting, ground-water flow is generally a subdued replica of the surface topography and flows toward drainage features which have eroded deeply enough to intersect the ground-water level and act as a discharge point. The natural ground-water flow direction can be affected by pumping from high capacity wells and permanent or temporary dewatering systems. Based on the topographic map of the site vicinity, ground water at the site appears to flow to the south (Figure 1).

#### II. CLOSURE PROCEDURES

#### **UST** Removal Activities

Utilities at the site were located by ULOCO prior to UST removal activities. UST removal activities were performed by Environmental Management Solutions, Inc. of Greensboro, North Carolina.

On November 18, 1997, Shamrock Environmental Corporation removed approximately 1,585 gallons of liquid from the UST, and transported the liquid to their facility in Browns Summit, North Carolina. The non-hazardous waste manifest is included in the Appendix. On November 19, after completion of product removal, a backhoe was used to perform the UST excavation activities. The grass and soil covering the USTs were removed to expose the top of the UST. Prior to excavation, the level of explosive vapors in the UST was checked using a combustible gas indicator. The level was less than 10 percent of the lower explosive limit (LEL). The UST was excavated and removed from the ground and appeared to be in good condition. The UST was transported to Safeway Tank Disposal Inc. for disposal. A copy of the tank disposal manifest is included in the Appendix.

The top of the UST was approximately 6.5 feet below the ground surface. The final excavation was approximately 34 feet long, 8.5 feet wide and 11.5 feet deep. The soil in the UST excavation consisted of red to brown clayey silt to the base of the excavation. The excavated soils along with additional clean fill were placed back in the excavation on November 24 following receipt of the confirmation soil sample analysis.

No water was encountered in the UST excavation. Three soil samples were collected from beneath the middle and each end of the UST (SS-1 through SS-3, Figure 2). No product piping was encountered. Soil samples SS-1 through SS-3 were collected approximately 1 foot below the base of the UST excavation at a depth of 12.5 feet below grade. The soil samples were screened for volatile organic compounds (VOCs) in the field using a RAE Photoionization Detector (PID). No fuel pump dispensers were associated with the UST. Details of the field procedures are discussed in Section III.

3 .

The soil samples were shipped to Paradigm Analytical Laboratories (PAL) in Wilmington, North Carolina and analyzed for volatile and semi-volatile total petroleum hydrocarbon (TPH) concentrations using EPA

Methods 5030/8015M and 3550/8015M. The laboratory data sheets are included in the Appendix.

#### III. SITE INVESTIGATION

#### Sample Collection Procedures

The soil samples collected from the floor of the excavation during UST removal activities were manually collected from the bucket of the backhoe using new, disposable latex gloves. The soil samples were placed into new 4-ounce capacity clean glass containers. After being filled, the sample containers were labeled with the project name and number, the time and date of sample collection, the analyses to be performed, and the absence or presence of preservative. The filled sample containers were placed into a cooler. Plastic bags containing ice were packed around the sample containers in the cooler to maintain the samples at approximately 4° Centigrade. The samples were shipped to Paradigm Analytical Laboratories, Inc. for 24-hour analysis. The Chain of Custody was maintained as documented in the Appendix.

#### PID Screening

A representative portion of each soil sample was placed into a plastic zip-lock bag and placed in a warm location. Approximately 10 minutes after the time of collection, the bag was opened slightly and the probe of a RAE PID was inserted. The meter of the PID was monitored and the reading recorded. No readings were detected on the PID meter.

#### Laboratory Analytical Results

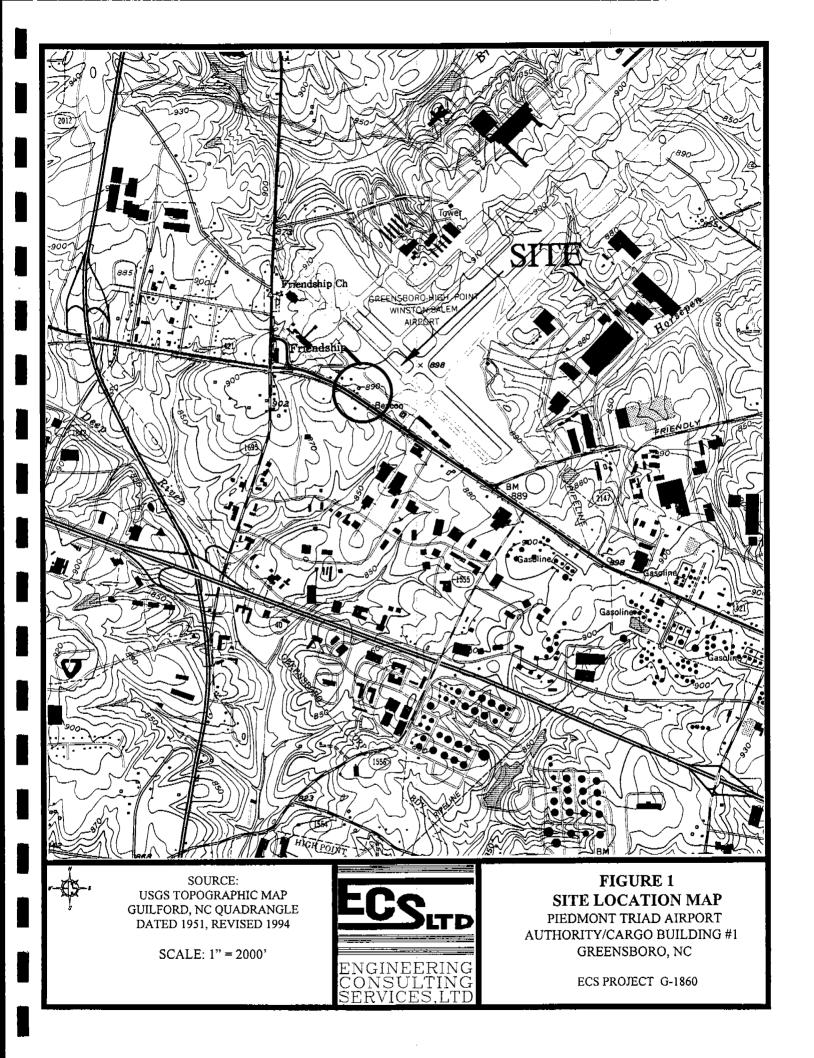
Laboratory analysis detected no volatile or semi-volatile concentrations in the samples. The laboratory data sheets and Chain of Custody are included in the Appendix.

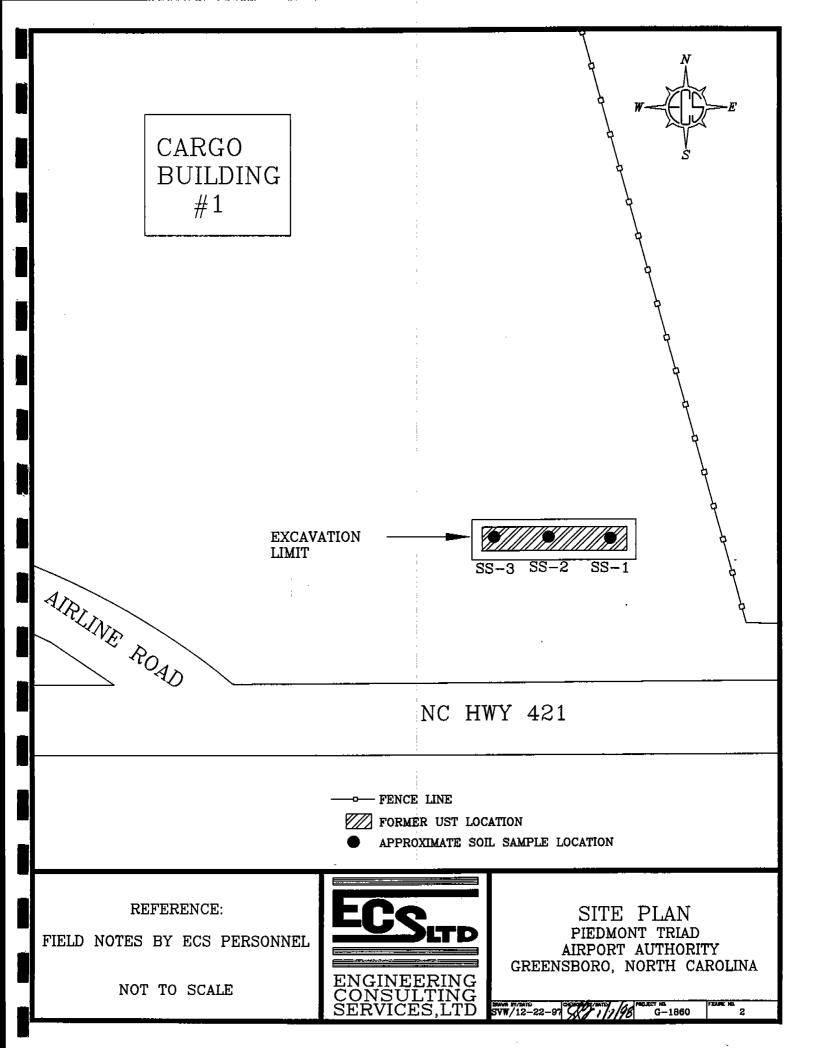
## IV. CONCLUSIONS AND RECOMMENDATIONS

Based on laboratory analysis, no volatile or semi-volatile TPHs were detected in the confirmation samples collected. No further assessment of this UST is recommended at this time.

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments and remediation projects of this type. Our evaluation of site conditions has been based on our understanding of the project information and the data obtained during our field activities.

**FIGURES** 





APPENDIX

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		III. CONT	ACT PERSON			
ame: <sup>]</sup>	Bill Shaw	Job Title:	i 	Telephon	e Number:( <u>910</u>	)665–5600
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nary	Consultant:	FCS, Ltd	Address:	5-C.E	undas	s Cir	Gre	ensbo	ro, NC	2740Tel. No.: 335-856-7150
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2627 Northchase Parkway S.E. Wilmington, North Carolina 28405 (910) 350-1903 Fax (910) 350-1557

Ms. Sania Werner ECS, LTD. 5-C Dundas Circle Greensboro, NC 27407 Date 11-21-97

Report Number: G161-178

Client Project ID: Piedmont Airport Cargo Bldg.; G-1860

Dear Ms. Werner:

Enclosed are the results of the analytical services performed under the referenced project. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from date of this report unless other arrangements are requested.

If there are any questions about the report or the services performed during this project, please call for assistance. We will be happy to answer any questions or concerns which you may have.

Thank you for using Paradigm Analytical Labs for your analytical service projects. We look forward to working with you again on any additional needs which you may have.

Sincerely,

Paradigm Analytical Laboratories

Laboratory Director

Mark Randall

# **Results for Total Petroleum Hydrocarbons**

by GC

Client Sample ID: SS-1

Date Collected: 11/19/97

Client Project ID: Piedmont Airport Cargo Bidg.

Date Received: 11/20/97

Lab Sample ID: Lab Project ID:

32820 G161-178 Analyzed By:

**JPW** %Solids: 71.7

Matrix:

Soil

Compound	Result (MG/KG)	Quantitation Limit	Method	Dilution Factor	Date Analyzed
Gasoline	BQL	8.7	5030	1.0	11/20/97
Diesel#2	BQL	39	3550	1.0	11/20/97

### **Comments:**

Quantitation Limits are fully calculated using dilution factors and % solids. BQL = Undetected or below quantitation limit.

# **Results for Total Petroleum Hydrocarbons**

by GC

Client Sample ID: SS-2

Date Collected: 11/19/97

Client Project ID: Piedmont Airport Cargo Bldg.

Date Received: 11/20/97

Lab Sample ID:

32821

Lab Project ID:

G161-178

Analyzed By:

**JPW** 77.7

Matrix:

Soil

%Solids:

Compound	Result (MG/KG)	Quantitation Limit	Method	Dilution Factor	Date Analyzed
Gasoline	BQL	8.0	5030	1.0	11/20/97
Diesel#2	BQL	36	3550	1.0	11/20/97

#### Comments:

Quantitation Limits are fully calculated using dilution factors and % solids. BQL = Undetected or below quantitation limit.

## **Results for Total Petroleum Hydrocarbons** by GC

Client Sample ID: SS-3

Date Collected: 11/19/97

Client Project ID: Piedmont Airport Cargo Bldg. Lab Sample ID:

Date Received: 11/20/97

Lab Project ID:

32822 G161-178 Analyzed By:

JPW

Matrix:

Soil

%Solids:

77.6

Compound	Result (MG/KG)	Quantitation Limit	Method	Dilution Factor	Date Analyzed
Gasoline	BQL	8.0	5030	1.0	11/20/97
Diesel#2	BQL	36	3550	1.0	11/20/97

#### Comments:

Quantitation Limits are fully calculated using dilution factors and % solids. BQL = Undetected or below quantitation limit.

PARADIGM ANALTTICAL LABORATORIES, INC. 2627 Northchase Parkway SE, Wilmington, NC 28405 Phone: (910)-350-1903 FAX: (910)-350-1557	rcarral ay SE, Wiln FAX: (910	BETAN ningto	TOK: n, NC 2 1557	.s, 11(C.) 28405		Chain-of	Custody R	ecord & Ar	Chain-of Custody Record & Analytical Request	luest	COC#	• • • • • • • • • • • • • • • • • • •
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